



INTEROFFICE CORRESPONDENCE

DATE: September, 19, 1994
TO: J. A. Ciucci, Waste Storage and Disposal, Bldg. T130B. X5841
FROM: S. R. Keith, Solar Pond Projects, Bldg. 080, X8541
SUBJECT: 904 PAD COMPLIANCE SCHEDULE - SRK-196-94

J.A. Ciucci for

DOE Order: 4700.1

Action: Provide concurrence on attached schedule

Attached are the proposed schedule for the repack/restack of the 904 pad and the Basis of Estimate (BOE) sheets for that activity. The contract for the container procurement was awarded September 14, 1994. It is expected that the delivery of the containers will start October 17, 1994. Procurement is arranging a meeting the week of September 19, 1994, with the vender to cover the various aspects of the contract including transportation, acceptance testing, and other topics. J. D. Roberts is aware of this and will be included, and in fact is a necessary attendee, when a firm time and place is scheduled. Remaining issues to be resolved include aisle space, [Occupational Safety and Health Administration (OSHA) and National Fire Protection Association (NFPA)].

The aisle space issue can be solved and Solar Pond Projects (SPP) has the lead. An arrangement that meets the 28 inch OSHA requirement and a NFPA "Equivalency Determination" are achievable and will yield space for 3933 containers, a decrease of 162 containers from that originally laid out.

The absorbent issue is one of down stream processing concerns. SPP has the lead in resolving this issue. It is noted that there is a requirement for absorbent for the pondcrete only for achieving Part B permitted status, but not for compliance with the Interim Status permitting.

The logistics is founded on a "just-in-time" concept, with a one week surge storage capacity. The contract has a provision for a maximum rate of 150 containers per week. The initial delivery will be 96 small containers per week and in the first month, 16 large containers. The containers will come on a flatbed truck, 24 small containers or 16 large containers per truck. With one week notification, the vendor can increase the quantities to be shipped, or with a three week notification, decrease the quantities to be shipped. This is one of the items which will be discussed with the vendor the week of September 19, 1994. We expect that the prototype containers, three small and one large, can be shipped following the acceptance testing at the vendors, conducted by Technical Support, and will be available to validate the procedures and handling practices. SPP has the lead in developing the logistics plan, but will need input from the Waste Solidification management.

The final procedure is in it's second major draft. The Onsite Traffic Committee has reviewed the containers and will provide approval for the use of the containers.

ADMIN RECORD

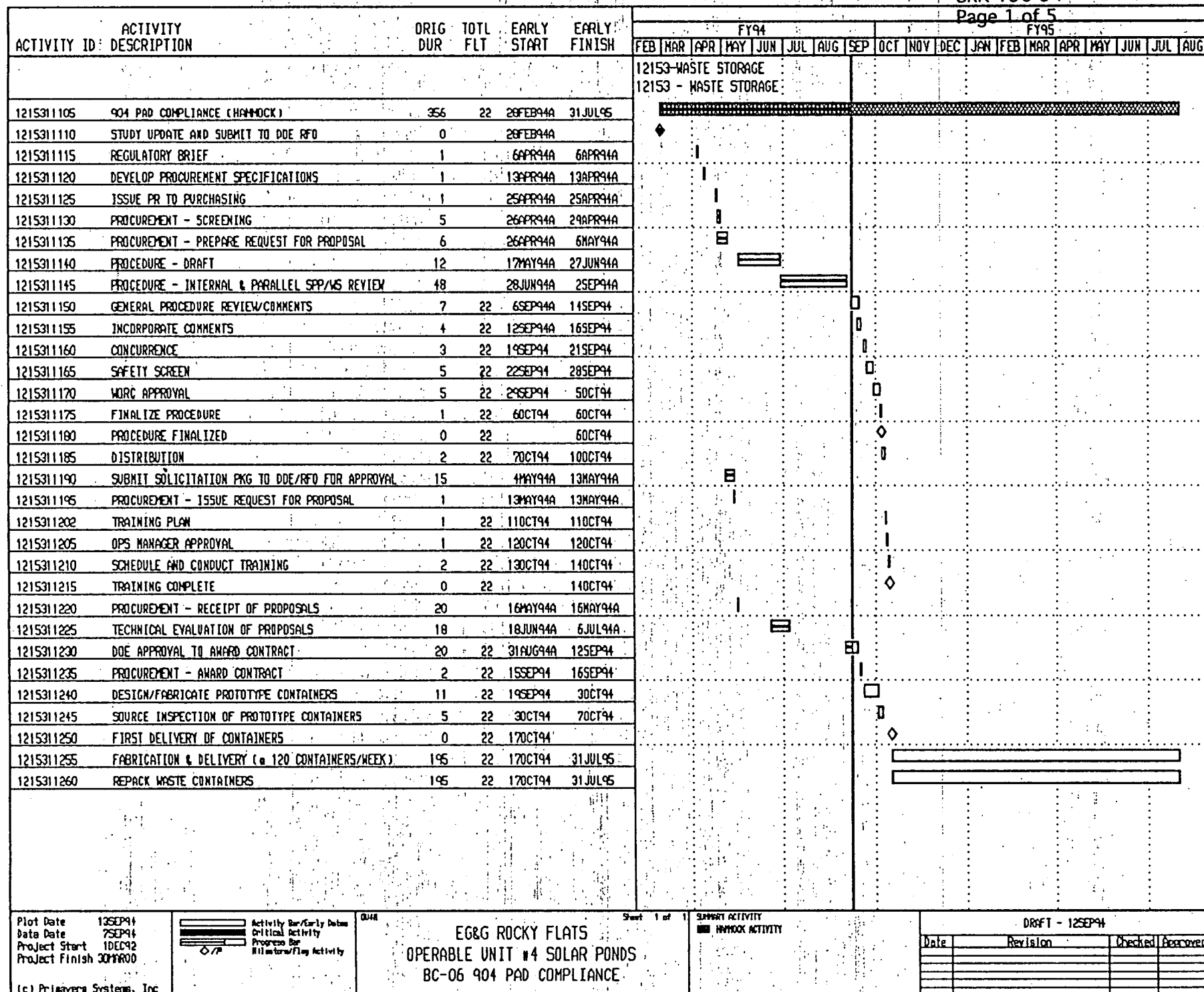
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In summary, the program for achieving 904 pad compliance is progressing. Please review and provide concurrence with the schedule so that we have a common ground upon which to proceed.

DRF:clh

Attachment
As Stated

cc:
D. R. Ferrier
J. D. Roberts
ERPD Records (2)
File



Plot Date 13SEP94
 Data Date 7SEP94
 Project Start 1DEC92
 Project Finish 30MAY90

Activity Bar/Early Dates
 Critical Activity
 Progress Bar
 Milestone/Flag Activity

GWA

Sheet 1 of 1

SAFETY ACTIVITY
 HAMMOCK ACTIVITY

EG&G ROCKY FLATS
 OPERABLE UNIT #4 SOLAR PONDS
 BC-06 904 PAD COMPLIANCE

DRAFT - 12SEP94

Date	Revision	Checked	Approved

Assumptions Repack 904 Pad Schedule

Aisle space requirements will be founded on the RCRA regulation performance based requirements.

Radiological controls practices will not change from that planned, use of the permacon will not be stipulated.

Weather concerns will not shut down operations on plant site nor impact the delivery of containers from the vendor.

The container delivery concept of "just-in-time" will obviate the need for a major lay-down area to stage the containers.

There will be no major reductions in force which would require a major retraining effort for Process Specialists "bumped".

The execution of the restack configuration will fit the CAD derived configuration and will not require the removal of the Tent 11 Permacon.

The absorbent material will be appropriate and compatible with the downstream processing design as it is developed.

There will be no proscription to unpack the waste from the pallets, triwalls, and plastic wrapping as a result of out-year processing concerns.

The planned man-power will be sufficient to repack/restack forty triwalls per shift.

10.1 BASIS OF ESTIMATE/BACK-UP DOCUMENTS

Activity Number: **Total - 12153/1320356000**
Activity Title: **Repack/Restack 904 Pad**

Total Hours: 18,477
Non-Labor Dollars: 4,084,234
Total Dollars: 5,874,738

10.1.1) Scope Description:

All work associated with repacking and restacking the triple-wall (tri-wall) containers on the 904 pad. Includes required loading tri-walls into metal containers, labeling, and paper work, e.g., Waste Residue Travelers, RCRA Saltcrete/Pondcrete Log Sheets, WEMs, etc.

10.1.2) Primary Driver(s):

Interagency Agreement (IAG), Resource Conservation and Recovery Act (RCRA), Code of Colorado Regulations (CCR) 6 CFR 1007-3, Colorado Hazardous Waste Regulations, Part 265, Sub-part I, Use and Management of Containers.

10.1.3) Milestones/Deliverables:

Completion of the repacking of Tri-wall containers in metal crates and stacking per IAG/RCRA requirements and all associated labeling and paperwork.

10.1.4) Assumptions:

1. Effort will repack 40 tri-walls per day.
2. An adequate number of qualified workers will be available.
3. Tent 11 Perma Con will not have to be removed to complete the effort.
4. All work will take place in the tents and will not require the use of Perma Cons.
5. Any spills of material which occur during repacking operations will be contained within the bounds of the RCA and will not require the use of a Perma Con during clean-up and re-containment efforts.

10.1.5) Estimating Approach / Estimating Rationale:

A bottoms-up approach was used to arrive at the estimate using a combination of the compliance study dated February 28, 1994 and Engineering Judgement. In addition, data contained in the Pad Operations and Waste Storage Cost Investigative Team (CIT) Final Report, dated May 4, 1994, was used to determine training and administrative/technical support requirements. Both of these referenced documents are on file in the Solar Pond Project Office (SPPO).

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Repack/Restack 904 Pad (continued)

LABOR HOURS

Cost Center 1397:

Effort to move material in preparation of repack/restack activity:

WS: 6 PS x 3 weeks x 40 hours/week = 720 hours

Cost Center 1397:

Shift Manager for coordination of all repack operations.

WS: 1 SM x 39 weeks x 40 hours/week = 1560 hours

Cost Center 1397:

Forklift drivers (3): One required for tri-wall retrieval, one for tri-wall loading, and one for steel container and lid placement and other support.

WS: 3 PS x 39 weeks x 40 hours/week = 4680 hours

Cost Center 1397:

Forklift Spotters: One spotter for each forklift.

WS: 3 PS x 39 weeks x 40 hours/week = 4680 hours

Cost Center 1397:

Administrative/technical support for this project.

WS: 1 x 39 weeks x 40 hours/week = 1560 hours

Cost Center 1397:

Training required for the WS personnel associated with this project. Since this is a one-time activity, training hours are determined separately from the baseline pad activities, i.e., activities 1000 through 5000. Hours were calculated based on what the CIT report determined was the proper training for a full year and then adjusted for the activity taking place in 39 weeks. Total hours to complete the activity for each source of labor were divided by 1237.5 hours to determine the approximate number of personnel requiring training. (Note: 39 weeks = .75 years, FTE = Full Time Equivalent - strictly used for determining the approximate number of personnel requiring training)

Process Specialists (PS)

13,200 hours ÷ 1237.5 hours/FTE/.75 year ≈ 12 FTE PS

12 PS x 103 hours/.75 year = 1236 hours

Shift Manager (SM)

1 SM x 117 hours/.75 year = 117 hours

Tech/Admin Support (T/A)

1 T/A x 53 hours/.75 year = 53 hours

Repack/Restack 904 Pad (continued)

Cost Center 3090:

Training support for this project.

1 T x 39 weeks x 5 hours/week =

195 hours

Cost Center 1397

Labels/Forms

These activities will be performed at the 904 Pad during the repack/restack operation. This includes the completion and application of all labels and the completion and processing of all required forms and paper work. This activity also includes verifying and validating the old crate log numbers and the new label numbers and thus must proceed apace with the repacking effort.

WS: 1 PS x 39 weeks x 40 hours/week =

1560 hours

Cost Center 0379:

Establish an RCA for each tent as repacking occurs. Man RCA and conduct surveys as required.

1 RCT x 39 weeks x 40 hours/week =

1560 hours

Cost Center 3061

System Engineering Support to validate installation to CAD Drawings.

1 x 39 weeks x 4 hours/week =

156 hours

Cost Center 1392

Waste Inspection of 1000 containers with LDR compliant Saltcrete.

This estimate is based on previous inspections and engineering judgement.

2 Waste Inspectors x 1000 containers x .20 hours/container =

400 hours

NON-LABOR DOLLARS BASIS OF ESTIMATE

All costs below are from Request for Quotations (RFQ) from the supplying vendors. Additional documentation to support these quotes is on file at the SPPO.

Cost Center 3002

Containers (price includes shipment FOB to RFETS)

4,000 small containers x \$796./container =

\$3,184,000.

150 large containers x \$875.80/container =

\$131,370.

Cost Center 3002

Absorbent Material (Radsorb or equivalent).

6,355 # x \$14.95/# =

\$95,000.